

AMENDMENTS TO THE SPECIFICATION

Please amend paragraph 30 of the specification as follows:

(30) As energy from an emitter source "S" of the apparatus 10 passes through the energy inlet port 18, the energy is directed to a predetermine point on the inner surface 16 of the curved side wall 14 so as to commence the step-by-step progression of the back-and-forth reflections of such energy through the sample cell 12. FIG. 1 shows a trace "t" of an energy ray completing multiple passes through the enclosed cavity of the sample cell 12. Within the annular configuration of the side wall 14 of the cell 12, the light or energy ray is reflected back-and-forth along the inner surface 16 of the side wall until the energy ray is directed through the energy outlet port 20 in the side wall to a detector "D" for reading the energy absorption that has taken place within the cell. After completing a single revolution of reflections, the light or energy ray thereby passes through substantially all of the gas within the cylindrical cell. The beam residence time and effective path length of the energy ray in the cell sample area is thereby extended. A typical configuration will provided twenty (20) passes of the energy ray across the cell between the energy inlet and outlet ports.